

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A calculation method of a discharge and transfer amount of chemical substances, comprising:

a step of inputting and storing a data which indicates a material, a use step of the material and a use amount of the material which are transmitted from a client terminal through a network;

a step of searching ~~for~~ a database of material components storing a contained chemical substance and content thereof corresponding to the material by using the inputted material as a key, and searching for the chemical substance contained in the material and the content;

91 a step of searching ~~for the~~ a database of a material balance coefficient which stores a ratio in which the chemical substance is discharged and transferred by every separate whereabouts of the chemical substance such as including at least one of air, water basin, and a product ~~and the like~~ corresponding to the chemical substance and the use step of the material by using the searched chemical substance and the inputted use step of the material as a key, and searching for the discharge and transfer ratio by every separate whereabouts when the searched chemical substance is used in the inputted use step of the material;

a step of calculating the discharge and transfer amount of the chemical substances by every separate whereabouts based on the searched discharge and transfer amount, the inputted use amount of the material, and the searched contents; and

a step of transmitting the calculated discharge and transfer amount by every separate whereabouts ~~when~~ of the searched chemical substance to a client terminal through a network.

2. (Currently Amended) A method of calculating a discharge and transfer amount of chemical substances, comprising:

a step of inputting and storing data indicating materials, a material use step, a material use amount, and a discharge step which are transmitted from a client terminal through a network;

a step of searching a material component database that stores contained chemical substances and contents in association with the substance by defining the inputted material as a key, and then, searching the chemical substances contained in the material and contents;

a step of searching a material balance coefficient database that stores a rate of which chemical substances are discharged and transferred by every separate whereabouts of the chemical substances ~~such as~~ including at least one of air and or products in association with the chemical substances, material use step, and discharge step by defining as a key the searched chemical substances, inputted material use step, and discharge step, and then, searching a discharge and transfer rate by every separate whereabouts when the searched chemical substances are discharged at the discharge step used and inputted at the inputted material use step;

a step of calculating the discharge and transfer amount by every separate whereabouts of chemical substances based on the searched discharge and transfer rate, inputted material use amount, and searched contents; and

a step of transferring the discharge and transfer amount by every separate whereabouts of the calculated chemical substances to the client terminal through a network.

3. (Currently Amended) A method of calculating a discharge and transfer amount of chemical substances, comprising:

a step of server inputting and storing data indicating materials, a material use step, a material use amount, and a discharge step which are transmitted from a client terminal through a network;

a step of server searching a material component database that stores contained chemical substances and contents in association with the substance by defining the inputted material as a key, and then, searching the chemical substances contained in the material and contents;

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a step of server searching a material balance coefficient database that stores a rate of which chemical substances are discharged and transferred by every separate whereabouts of the chemical substances ~~such as~~ including at least one of air or and products in association with the chemical substances, material use step, and discharge step by defining as a key the searched chemical substances, inputted material use step, and discharge step, and then, searching a discharge and transfer rate by every separate whereabouts when the searched chemical substances are discharged at the discharge step used and inputted at the inputted material use step;

a step of server calculating the discharge and transfer amount by every separate whereabouts of chemical substances based on the searched discharge and transfer rate, inputted material use amount, and searched contents; and

a step of server transferring the discharge and transfer amount by every separate whereabouts of the calculated chemical substances to the client terminal through a network.

4. (Original) A method of calculating a discharge and transfer amount of chemical substances for a client, comprising:

a stage of displaying a material list classified by material categories to the client terminal, and then, prompting the client to input the use material and material use amount;

a stage of displaying a hierarchically classified material use step list on the client terminal, and then, prompting the client to input the material use step;

a stage of displaying a hierarchically classified discharge step list on the client terminal, and then, prompting the client to input the discharge step; and

a stage of inputting to the server the use material, material use amount, and material use step, and discharge step inputted from the client terminal, calculating the discharge amount by every separate whereabouts of the chemical substances contained in the use material by the server, and then, outputting the amount to the client terminal.

5. (Currently Amended) A server for calculating a discharge and transfer amount of chemical substances comprising:

means for inputting and storing a data indicating and storing a material, a use step of the material, and a use amount of the material;

a database of a material component storing a chemical substance contained and a content corresponding to the material;

means for searching for the database of the material component using the inputted material as a key, and searching for the chemical substance and the content contained in the material;

a database of a material balance coefficient which stores a ratio in which the chemical substance is discharged and transferred by every separate whereabouts of the chemical substance such as including at least one of air, water basin, and a product and the like corresponding to the chemical substance and the use step of the material;

means for searching for the database of a material balance coefficient using the searched chemical substance and the inputted use step of the material as a key, and searching for the discharge and transfer ratio by every separate whereabouts when the searched chemical substance is used in the inputted use step of the material;

means for calculating the discharge and transfer amount of the chemical substances by every separate whereabouts based on the searched discharge and transfer ratio, the inputted use amount of the material and the searched content; and

means for outputting the calculated discharge and transfer amount by every separate whereabouts of the chemical substances.

6. (Currently Amended) A server for calculating a discharge and transfer amount of chemical substances, comprising:

means for inputting and storing data indicating a material, a material use step, a material use amount, and a discharge step;

a material component database that stores contained chemical substances and contents in association with an inputted material;

means for searching the material component database by defining the inputted material as a key, and then, searching the chemical substances contained in the material and the contents;

a material balance coefficient database that stores a rate of which the chemical substances are discharged and transferred by every separate whereabouts of the chemical substances such as including at least one of air, water basin, and a product and the like in association with the chemical substances, material use step, and discharge step;

means for searching the material balance coefficient database by defining the searched chemical substances, inputted material use step, and discharge step as a key, and then, searching the discharge and transfer rate by every separate whereabouts when the searched chemical substances are discharged at the discharge step used and inputted at the inputted material use step;

means for calculating the discharge and transfer amount by every separate whereabouts of the chemical substances based on the searched discharge and transfer rate, inputted material use amount, and searched contents; and

means for outputting the discharge and transfer amount by every separate whereabouts of the calculated chemical substances.

7. (Currently Amended) A computer system in which client terminals are connected to a server for calculating a discharge and transfer amount of chemical substances through a network, said computer system comprising:

a client terminal prompting a client to input data indicating a material, a material use step, a material use amount, and a discharge step in interactive mode; and

a server for calculating a discharge and transfer amount of chemical substances, the server calculating the discharge and transfer amount by every separate whereabouts of chemical substances, and transmitting the calculation result to the client terminal by employing a material component database that stores contained chemical substances and their contents in association with materials and a material balance coefficient database that stores a rate of which the chemical substances are discharged and transferred by every separate whereabouts of the chemical substances such as including at least one of air, water basin, and a product and the like in association with the chemical substances, material use step, and discharge step.

8. (Original) A computer system of Claim 7, wherein a material supplier server is connected to a network, and a material component database is updated based on data transmitted from the material supplier server.

9. (Original) A computer system of Claim 7, wherein a material supplier server is connected to a network, an operator of the server for calculating the discharge and transfer amount of chemical substances checks data transmitted from the material supplier server, and the material component database is updated based on the checked data.

10. (Currently Amended) A computer system of Claim 7, wherein the material supplier server is connected to a network, and a material component database stores link

information indicating an address of ~~which~~ the component information of each material that exists in the material supplier server.

11. (Currently Amended) A computer system of Claim 7, wherein a client terminal capable of browsing a material component database ~~is~~ has restricted access based on type of ~~by~~ material.

12. (Original) A computer system of Claim 7, wherein a client terminal has a function for printing out in a document format a discharge and transfer amount by every separate whereabouts of chemical substances transmitted from the server for calculating a discharge and transfer amount of chemical substances.

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13. (Currently Amended) A computer system of Claim 12, wherein the client terminal has a function for printing out in an intensive document format a discharge and transfer amount by every separate whereabouts of chemical substances transmitted from the server for calculating a discharge and transfer amount of chemical substances.
